



CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005



Job No.: CTCE/BBMP/W.No.04/MRM/CSR-02/1068d/CEMENT/2015-16

Date: 12.02.2016

TEST REPORT ON CEMENT

* CUSTOMER	:	Asst. Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.
* AGENCY	:	Mr. M. Ramamurthy, Allalasandra, Yelahanka, Bangalore - 65.
* NAME OF THE WORK	:	Construction of Rangamandira in Judicial Layout in Ward No. 04 of Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
REFERENCE	:	BBMP/AEE/YNTSD/179/2015-16 Dated : 10.02.2016
SAMPLE ID	:	Cement
SAMPLE RECEIVED ON	:	10.02.2016
PERIOD OF TESTING	:	10.02.2016 to 12.02.2016



The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	29.00%	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	135 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	455 Minutes	Not More than 600 Minutes
3	Soundness by Le Chatelier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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Ram Saijeev AE
12/2

Vishwanath .C
VISHWANATH .C
Quality Manager



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Job No.: CTCE/BBMP/W.No.04/MRM/CSR-02/1068d/SAND-Gradation/2015-16

: 12.02.2016

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

* Customer : Asst. Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.

* Agency : Mr. M. Ramamurthy,
Allalasandra, Yelahanka, Bangalore - 65.

* Name of Work : Construction of Rangamandira in Judicial Layout in Ward No. 04 of Yelahanka
Satellite Town Sub Division, BBMP, Bangalore.

Reference : BBMP/AEE/YNTSD/179/2015-16 Dated : 10.02.2016

Technical Reference : IS : 2386 Part 1 - 1963 RA-2007

Sample ID : Fine Aggregates

Sample Received on : 10.02.2016

Date of Testing : 12.02.2016



Total Wt. of Aggregates in gms 1000

Is Sieve Size in mm	Cumulative Weight Passing in %	Spec.Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	92.62	90-100	90-100	90-100	95-100
2.36	78.28	60-95	75-100	85-100	95-100
1.18	57.10	30-70	55-90	75-100	90-100
600 Micron	37.84	15-34	35-59	60-79	80-100
300 Micron	16.26	5-20	8-30	12-40	15-50
150 Micron	5.92	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-II specific limits.

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VISHWANATH .C
Quality Manager



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Job No.: CTCE/BBMP/W.No.04/MRM/CSR-02/1068d/AGG/GR/2015-16

12.02.2016

TEST REPORT ON COARSE AGGREGATES

* Customer : Asst. Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.

* Agency : Mr. M. Ramamurthy,
Allalasandra, Yelahanka, Bangalore - 65.

* Name of Work : Construction of Rangamandira in Judicial Layout in Ward No. 04 of Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Reference : BBMP/AEE/YNTSD/179/2015-16 Dated : 10.02.2016

Technical Reference : IS : 2386 Part 1 -1963 RA-2007

Sample ID : Coarse Aggregates (40mm)

Sample Received on : 10.02.2016

Date of Testing : 12.02.2016



Total Wt. of Aggregates in gms= 7000

Is Sieve Size in mm	Cumulative Weight Passing in %	Spec.Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	96.24	95-100	85-100
20	36.01	30-70	0-20
10	15.66	10-35	0-5
4.75	2.89	0-5	-

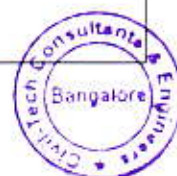
* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

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VISHWANATH J.C
Quality Manager





Job No.: CTCE/BBMP/W.No.04/MRM/CSR-02/1068d/AGG/GR/2015-16

: 12.02.2016

TEST REPORT ON COARSE AGGREGATES

* Customer : Asst. Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.

* Agency : Mr. M. Ramamurthy,
Allalasandra, Yelahanka, Bangalore - 65.

* Name of Work : Construction of Rangamandira in Judicial Layout in Ward No. 04 of Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Reference : BBMP/AEE/YNTSD/179/2015-16 Dated : 10.02.2016

Technical Reference : IS : 2386 Part 1 -1963 RA-2007

Sample ID : Coarse Aggregates (20mm)

Sample Received on : 10.02.2016

Date of Testing : 12.02.2016



Total Wt. of Aggregates in gms= 5000

Is Sieve Size in mm	Cumulative Weight Passing in %	Spec.Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
40	100	100	100
20	96.58	95-100	85-100
10	31.06	25-55	0-20
4.75	2.50	0-10	0-5

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits

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Job No. CTCE/BBMP/W.No.04/IRM/STEEL/2015-16

20.02.2016

TEST REPORT ON REINFORCEMENT STEEL

Customer : Asst. Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.

Agency : Mr. M. Ramamurthy, Allasandra, Yelahanka, Bangalore - 65.

Name of the Work : Construction of Rangamandira in Judicial Layout in Ward No. 04 of Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Reference : BBMP/AEE/YNTSD/179/2015-16 Dated: 10.02.2016

Date of Test : 20.02.2016

Technical Reference : IS: 1786-2008



Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm ²	Tensile strength (Ultimate stress) N/mm ²	Elongation percent gauge length		
1	8	0.40	510	552	13.10	O.K	O.K

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Ram Saijeev AE
18/2/16

[Signature]
M/s. Civil-Tech Consultants & Engineers

23/14, 7th Cross, 3rd Stage,
4th Block, Shakhiganapathinagara,
Basaveshwaranagar,
Bangalore-560079.



Job No.: CTCE/BBMP/W.No.04/MRM/STEEL/2015-16

20.02.2016

TEST REPORT ON REINFORCEMENT STEEL

Customer : Asst. Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.

Agency : Mr. M. Ramamurthy,
Allalasandra, Yelahanka, Bangalore - 65.

Name of the Work : Construction of Rangamandira in Judicial Layout in Ward No. 04 of Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Reference : BBMP/AEE/YNTSD/179/2015-16 Dated: 10.02.2016

Date of Test : 20.02.2016

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Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm ²	Tensile strength (Ultimate stress) N/mm ²	Elongation percent gauge length		
1	10	0.62	514	557	13.30	O.K	O.K

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Date of Test : 20.02.2016

Technical Reference : IS: 1786-2008



Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm ²	Tensile strength (Ultimate stress) N/mm ²	Elongation percent gauge length		
1	12	0.89	517	564	13.45	O.K	O.K

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Customer : Asst. Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.

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Reference : BBMP/AEE/YNTSD/179/2015-16 Dated: 10.02.2016

Date of Test : 20.02.2016

Technical Reference : IS: 1786-2008



Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm ²	Tensile strength (Ultimate stress) N/mm ²	Elongation percent gauge length		
1	16	1.59	519	563	13.60	O.K	O.K

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Job No.: CTCE/BBMP/W.No.04/MRM/CSR-02/1068d/CUBE/2015-16

07.04.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer : Asst. Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.

* Agency : Mr. M. Ramamurthy,
Allalasandra, Yelahanka, Bangalore - 65.

* Name of the work : Construction of Rangamandira in Judicial Layout in Ward No. 04 of Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Reference : BBMP/AEE/YNTSD/179/2015-16 Dated : 10.02.2016

* Sample ID : Plinth Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

* Grade of Concrete : M₁₅

Compressive Strength as on : 28th day

Sample Received on : 07.04.2016



Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	10.03.2016	07.04.2016	8.245	364.7	16.21
2	10.03.2016	07.04.2016	8.319	380.9	16.93
3	10.03.2016	07.04.2016	8.425	392.5	17.44

* Information is furnished by the Customer/Representative

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Job No.: CTCE/BBMP/W.No.04/MRM/CSR-02/1068d/CUBE/2015-16

26.03.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer : Asst. Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.

* Agency : Mr. M. Ramamurthy,
Allalasandra, Yelahanka, Bangalore - 65.

* Name of the work : Construction of Rangamandira in Judicial Layout in Ward No. 04 of Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Reference : BBMP/AEE/YNTSD/179/2015-16 Dated : 10.02.2016

* Sample ID : Footing Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

* Grade of Concrete : M₂₀

Compressive Strength as on : 28th day

Sample Received on : 26.03.2016



Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	27.02.2016	26.03.2016	8.169	502.6	22.34
2	27.02.2016	26.03.2016	8.369	486.8	21.63
3	27.02.2016	26.03.2016	8.427	506.5	22.51

* Information is furnished by the Customer/Representative

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Ram Sanjeev AE
26/3

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Job No.: CTCE/BBMP/W.No.04/MRM/CSR-02/1068d/CUBE/2015-16

04.04.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer : Asst. Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.

* Agency : Mr. M. Ramamurthy,
Allalasandra, Yelahanka, Bangalore - 65.

* Name of the work : Construction of Rangamandira in Judicial Layout in Ward No. 04 of Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Reference : BBMP/AEE/YNTSD/179/2015-16 Dated : 10.02.2016

* Sample ID : Column Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

* Grade of Concrete : M₂₀

Compressive Strength as on : 28th day

Sample Received on : 04.04.2016



Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	07.03.2016	04.04.2016	8.169	502.6	22.34
2	07.03.2016	04.04.2016	8.321	486.8	21.63
3	07.03.2016	04.04.2016	8.236	506.5	22.51

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Ramamurthy AE
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Quality Manager



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Job No.: CTCE/BBMP/W.No.04/MRM/CSR-02/1068d/CUBE/2015-16

11.04.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer : Asst. Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.

* Agency : Mr. M. Ramamurthy,
Allalasandra, Yelahanka, Bangalore - 65.

* Name of the work : Construction of Rangamandira in Judicial Layout in Ward No. 04 of Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Reference : BBMP/AEE/YNTSD/179/2015-16 Dated : 10.02.2016

* Sample ID : Column Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

* Grade of Concrete : M₃₀

Compressive Strength as on : 28th day

Sample Received on : 11.04.2016



Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	14.03.2016	11.04.2016	8.426	502.6	22.34
2	14.03.2016	11.04.2016	8.156	486.6	21.62
3	14.03.2016	11.04.2016	8.324	516.7	22.96

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Ram Sanjeev AE
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VISHWANATH .C
Quality Manager

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20.04.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

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* Agency : Mr. M. Ramamurthy,
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Reference : BBMP/AEE/YNTSD/179/2015-16 Dated : 10.02.2016

* Sample ID : Column Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

* Grade of Concrete : M₂₀

Compressive Strength as on : 28th day

Sample Received on : 20.04.2016



Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	23.03.2016	20.04.2016	8.426	506.9	22.53
2	23.03.2016	20.04.2016	8.456	489.8	21.77
3	23.03.2016	20.04.2016	8.123	516.8	22.97

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20/4

VISHWANATH .C
Quality Manager